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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/994,698		11/28/2001	Kazuhiko Ikeuchi	1081.1134	7926	
21171	7590	04/06/2004		EXAMINER		
STAAS &	HALSEY	LLP	PEUGH, BRIAN R			
SUITE 700 1201 NEW 1	YORK AV	ENUE, N.W.		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005				2187		
			10	DATE MAILED: 04/06/2004	· B	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	d
	09/994,698	IKEUCHI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Brian R. Peugh	2187	
The MAILING DATE of this communication	on appears on the cover sheet wit	h the correspondence addres	}S
A SHORTENED STATUTORY PERIOD FOR IT THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicat. If the period for reply specified above is less than thirty (30) day. If NO period for reply is specified above, the maximum statutory. Failure to reply within the set or extended period for reply will, be any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a retion. s, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT y statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. FHS from the mailing date of this commu ANDONED (35 U.S.C. § 133).	unication.
Status			
Responsive to communication(s) filed on 2a) This action is FINAL.	This action is non-final. Illowance except for formal matte	• •	erits is
Disposition of Claims		·	
4) Claim(s) 1-12 is/are pending in the application Papers	thdrawn from consideration.		
9) The specification is objected to by the Ex	aminer.		
-	accepted or b) objected to b	y the Examiner.	
Applicant may not request that any objection	to the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the of the oath or declaration is objected to by the oath or declaration is objected to by the oath or declaration is objected to be objected.	·	•	, ,
Priority under 35 U.S.C. § 119			
12) ☒ Acknowledgment is made of a claim for for a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☒ Certified copies of the priority documents. ☐ Copies of the priority documents. ☐ Copies of the certified copies of the application from the International Experiments. * See the attached detailed Office action for the internation of the certified copies.	uments have been received. uments have been received in Apele priority documents have been abureau (PCT Rule 17.2(a)).	oplication No received in this National Stag	ge
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-9-3) Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No(s)/Mail Date 7/2. 		/Mail Date formal Patent Application (PTO-152 _	P)

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DETAILED ACTION

Response to Amendment

This Office Action is in response to Applicant's communication filed February 2, 2004, in response to PTO Office Action dated October 31, 2003. The applicant's remarks and amendment to the specification and/or claims were considered with the results that follow.

Claims 1-12 have been presented for examination in this application. In response to the last Office Action, claims 1-12 have been amended.

The Examiner left a message with Applicant's Representative, Gene M. Garner II, Reg. No. 34,172, on March 30, 2004 regarding the following rejections. A response to the message had not been received by the Examiner before the completion of the current Office Action.

Claim Objections

Claims 1-12 are objected to because of the following informalities:

Regarding claim 1, line 21: Replace "each said management module" with –each of said plurality of management modules-- in order to correspond with the claim limitation of line 7.

Regarding claim 1, line 24: Replace "request" with -requests--.

Regarding claim 1, line 29: Insert –said-- before "plurality" in order to correspond with the claim limitation of line 14.

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Regarding claim 7, line 3: Insert –of said different logical volumes-- after "volume" in order to correspond with the claim limitation of lines 2-3.

Regarding claim 7, lines 6 & 7: Insert –one-- after "said" in order to correspond with the claim limitation of line 3.

Regarding claim 8, line 3: Replace "one" with –a first-- and "another" with –a second— in order to clearly differentiate the two management modules.

Regarding claim 8, line 4: Replace "one" with -first--.

Regarding claim 9, line 3: Replace "one" with -a first--.

Regarding claim 9, line 4: Replace "another" with -a second---.

Regarding claim 9, line 4: Replace "another" with --said second--.

Claims 2-6 and 10-12 are objected to as being dependent upon a previously objected claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6, 8, 9, and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 1 recites the limitation "said one of plurality of physical disks" in line 14.

There is insufficient antecedent basis for this limitation in the claim. A single "one" of the "a plurality of physical disks" (line 2) had not been previously identified. If the identifying of a single disk of the plurality of disks had been the intent, substitution of the phrase "said one of plurality of physical disks" with "one of said plurality of physical disks", or a similar such phrase, would correctly identify the intended claim limitation.

Claim 1 recites the limitation "a plurality of said management tables" in line 18.

There is insufficient antecedent basis for this limitation in the claim. A plurality of "said management tables" had not been previously identified. If the intent of the phrase was to correspond to the "plurality of management tables" (line 11), substitution of the phrase "a plurality of said management tables" with "said plurality of management tables", or a similar such phrase, would correctly identify the intended claim limitation.

Claim 3 recites the limitation "said logical format management module" in line 5.

There is insufficient antecedent basis for this limitation in the claim. A "logical format management module" had not been previously recited.

Claim 8 recites the limitation "said logical formatting of said physical disks" in line

2. There is insufficient antecedent basis for this limitation in the claim. A method for the "logical formatting of said physical disks" had not been previously recited.

Claim 9 recites the limitation "the management table of said physical disks" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim. A "management table" had not been previously attributed to "said physical disks".

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Claim 9 recites the limitation "said management table of another logical format management module" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim. A "management table" had not been previously attributed to a "logical format management module".

Claim 12 recites the limitation "said logical format" in line 5. There is insufficient antecedent basis for this limitation in the claim. It is unclear to the Examiner whether the "said logical format" of line 5 refers to the "logical format processing request" of line 5.

Claims 2 and 4-6 are rejected as being dependent upon a previously rejected claim.

Allowable Subject Matter

Claim 7 is objected to, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 10 and 11 are objected to as being dependent upon a previously objected claim claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 1 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Claims 2-6, 8, 9, and 12 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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Response to Arguments

Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian R. Peugh whose telephone number is 703-306-5843. The examiner can normally be reached on Monday-Thursday from 7:00am to

4:30pm. The examiner can also be reached on alternate Friday's from 7:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks, can be reached on (703) 308-1756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9600.

DS/BRP DS/BRP

Donald Sparks

Supervisory Patent Examiner

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April 1, 2004